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Mining News

ARIZ.-COM.'S SMELTER.

Description of Plant Which Recently Went into Commission.

Yesterday morning at 9 o'clock a new industry had its inception at Copper Hill, when the new smelter of the Arizona-Commercial Copper company, located a short distance east of that town, blew its furnace for the first time.

This event has a great significance both for the growing camp of Copper Hill and the Globe mining district as well. Henceforth, the smelter will handle about 350 tons of ore daily. The capacity of its furnace is, however, 500 tons a day, and eventually this amount of ore will probably be smelted.

For several months, a large force of men has been at work on the construction of the new smelter and the complete result is one of the best smelting plants in Arizona, not in point of size, but in convenience of arrangements and the quality of its machinery and buildings.

To General Manager J. W. Bennie and Assistant Manager John E. Penberthy great credit is due for the thoroughness and durability of construction that characterizes the entire plant for to build a smelter that no delays are encountered when it first blows in is a matter requiring the closest attention to detail and a careful watching of all the minute points necessary to avoid any mechanical trouble in the various departments.

At present, the entire force of men employed at both smelter and the mine of the Arizona-Commercial Copper Co. numbers about 250 men and many more employees will probably be taken on as soon as the smelter is fairly under way and handling custom ore in quantities in addition to its own. Practically all that has been done toward placing the Black Hawk mine on a producing basis and toward the erection of the smelter and power plant has been done since the beginning of the present year and only by close personal survey can the magnitude of this work be appreciated.

The smelting and mining plant of

the Arizona-Commercial Copper company is very largely of steel and reinforced concrete. The furnaces are of the most approved types and while the management conservatively estimates that 350 tons a day can be easily treated it is expected that fully 500 tons of the Black Hawk ores carrying an excess of iron can be easily handled daily. This ore in combination with the Copper Hill sulphides and lime flux constitutes a smelter charge that can be readily smelted. The smelter is so built that enlargement of the furnace to double its present capacity will be possible in the future at a comparatively slight cost. Within the next six months a converter will probably be added and space for this has been reserved adjacent to the smelter. The furnace now produces a high grade matte.

The power house is a steel structure well lighted and its dimensions are 80 by 72 feet. The machinery is of the most modern make and during the several tests made of it previous to the blowing-in of the smelter, has given perfect satisfaction.

There are three engines of the condensing type now in use. One of these drives a No. 9 Cornwell blower; another runs a 100 kilowatt generator, for lighting the mine and surface works and for supplying power to run the electric locomotive which hauls the slag. The third engine operates a Nordberg air compressor with a capacity of 1,200 cubic feet a minute. The steam is supplied by two boilers of the Babcock & Wilcox type each of which has 300 horse power.

The ore bins in connection with the new smelter are situated on the hillside above the charge floor and have a total capacity of 2,000 tons. Opposite to them are the bins for coke, lime and other materials used in making the smelter charge. The chutes are worked automatically. It being possible for one man to open and close them with slight physical effort. From the bins the ores, coke and so forth is carried to the charge floor a short distance away in dumping cars of modern make.

In the mine of the Arizona-Commercial Copper company stopping of ore on the sixth level is going on and a considerable amount will be produced henceforth to feed the smelter. On the seventh level the water has been cleared out. The cutting of a pump station is now being done on the sixth level. As soon as a new and powerful pump is installed there, the work of developing the ore body on a depth of 700 feet will be begun.

PAINE, WEBBER & CO.'S GOSSIP.
The copper metal market is somewhat staidier, there being less pressure to sell than for some days past. Prices, however, are unchanged. While the leading interests still quote 13 1/2 cents for electrolytic, sales have been made at 13 cents and slightly under the latter figure. There is a disposition on the part of some of the selling agencies and producers to hold the market at 13 cents. It is yet too early to make any forecast of the probable showing of the next statement of the Copper Producers' association but in usually well informed quarters the belief prevails that the November statement of the association will make a comparatively good showing. Exports of copper so far this month are at the rate of about sixteen million pounds and it is said that the deliveries to domestic consumers are somewhat larger than they were in September. Some of the independent companies are pretty well sold up and this is particularly true of the companies controlled by the Guggenheim interests which are sold for some time ahead. The lake companies are also in a firm position. It is stated that the Calumet & Hecla is selling on the basis of 13 1/2 for Lake but some of the other Lake companies have sold Lake copper for shipment before the close of Lake navigation at 13 1/2.

The second annual report of the La Rose Consolidated Mines Co. for the year ended May 31, 1909, shows surplus profits of \$421,481. Sales of silver bullion yielded \$1,183,942, while net value of ore and bullion on hand and in transit at the end of the year was

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\$1,565,043; expenditures were \$510,498; \$376,278. Interest increased gross to dividends, \$633,982. McCarthy says the cost of producing silver was 16 1/2 cents an ounce while the average selling price was fifty-one cents. The company has cash on hand and in bank of \$74,276 and accounts payable of \$38,562. Ore reserves in La Rose are figured at 4,368,418 ounces of silver, including partly developed ground, country rock and indicated ore in No. 3 vein.

The crosscut on the Wyandotte property has advanced nine feet in the hole recently encountered and is now breastrated in a brownish amygdaloid 1,100 feet from the shaft. No copper is showing. This hole where cut in the drill hole 700 feet northwest of the shaft shows a width of 29 feet. Drifting in the so-called No. 6 lode continues. That lode has been exposed for quite 200 feet in the drifts without resulting in disclosures of commercial ground.

At a special meeting of directors of La Rose Consolidated Mines Co., yesterday afternoon, the resignation of John McMartin, Duncan McMartin, Henry Timmins and Frank W. Holmes were accepted and George W. Stevens, Shirley Ogilvie, Alex Pringle and Victor E. Mitchell were elected in their places. D. Lorne McGibbon was elected president of the company in place of John McMartin and David F. Askin was elected vice president in place of L. H. Timmins.

The copper share market has about maintained its balance without material losses or gains. The price of the metal has not risen because manipulative tactics have played a dominant part in keeping the price for the product at its present low level despite the advance in general business conditions and the rise in other stable metals such as iron and zinc. The price of the metal cannot be kept at such a low figure for a very long period for the natural demand for the product is already making itself felt in domestic consumption business and the policy by large metal manufacturers of operating their places by the hand to mouth methods will not avail for any lengthy period from now on.

Rockland, Mich.—The decision to practically close down the Michigan mine is regretted here but sentiment is that the directorate could not very well do otherwise as it will be necessary to locate other mineral bodies before it can be hoped to make the Michigan a success. The unsatisfactory condition of the copper market means a continued loss to operate the mine and was the controlling factor leading to the shut down. In the meantime the mine will be kept watered and the drill work will be carried on in the hopes of finding a lode of commercial quality in the extensive mineral territory of the Michigan.

PRYOR & SMITH'S GOSSIP.

Courtland, Ariz., Oct. 21.—The new central power house of the Copper Queen, which will supply power for that company and the Great Western shafts, is practically ready to begin work. The plant is being built jointly by the Copper Queen and the Great Western and will supply sufficient electricity to run two double drum hoists for the Queen, while the compressed air plant will furnish sufficient air to drive the drills of three Copper Queen shafts and two belonging to the Great Western. Germania shaft of the Calumet & Arizona will soon reach the 500-foot level at the present rate of sinking. Work at the April Pool shaft of this company is now confined to drifting, there being two drifts run from the setting at the 523-foot level.

GAY & STURGIS' GOSSIP.

Calumet, Mich., Oct. 21.—The market had a holiday appearance up to noon. In the late trading, buying appeared which, assisted by short covering, sent prices up with a rush. Steel common advanced three points.

Amalgamated declared the regular quarterly dividend of 50 cents per share.

Boston coppers lacked "snap" all day, with few stocks offered and buying orders lacking. This market will probably do better the balance of the week in sympathy with the general market.

Curb stocks were fairly active, Indiana being the strong card, on the report of a rich diamond drill core from a depth of 565 feet.

Shattuck & Arizona is being quietly picked up around 23, which taken in connection with the persistent rumor that the control of this property is likely to pass into stronger hands, is significant to say the least.

New York, Oct. 21.—American stocks in London went 1/4 to 1 per cent below parity. Last assessment on Chicago & Great Western due today. Union Pacific directors meet today and will probably elect a new president in place of E. H. Harriman. Series of typhoons along Hongkong and Manila. Railroad employees likely to ask for increased wages throughout United States. Men's organization, American Bridge Co., will begin immediately constructing a plant at Gary with capacity of 20,000 tons monthly. Iron Age says talk of pig iron importations has been checked the advance. London market depressed early on advance in bank rate but recovered somewhat in the afternoon. Copper consumers still holding off anticipating concessions in price. President Thomas of Lehigh Valley says coal business is still very dull. Chicago corporation counsel says city has power to compel railroads to electrify within its limits. 12 Industrials declined 13; 20 active railroads declined 47.—Dow, Jones & Co.

bank rate is up to 5 per cent, a very drastic move for any time, and particularly drastic in view of the fact that the rate has already been advanced 1 1/2 per cent during the past two weeks. It shows that conditions abroad are far from good, it means that we will get no gold from abroad, and it further means that we cannot borrow any European money. I look for lower prices in our market. It is just such things as this additional rise of 1 per cent in the English bank rate which causes trouble, particularly when we have got a public which is carrying too much stocks.—J. W. Prentiss.

STOCKS

Boston, Mass., Oct. 21.—The raise of the Bank of England rate to five per cent this morning naturally made the local traders very conservative. The opening in New York was weak but the selling soon exhausted itself and the rally late in the day carried prices well over last night's close. The local market was unchanged with very few transactions. Butte, Coalition and Greene-Cannara were still accumulated but no attempt was made to advance the price. In the last few minutes Isle Royale and Arizona-Commercial were well bought. The market has certainly been improved by the developments the past few days. The short interest is larger and the liquidation has spent its force. We look for the next activity to be on the up side.—Paine, Webber & Co.

Gay & Sturgis says:
Boston, Mass., Oct. 21.—The general list became overvalued today and rallied sharply notwithstanding the action of the Bank of England which raised its discount rate to five per cent.

The news was not bullish but market having steadily receded for some time past was overvalued. We see no change in situation and think market simply rallied on its technical position. Coppers were featureless and no news of any consequence was current concerning them. A continuation of present market with a gradual sagging tendency is probable.—I. J. Sturgis.

BOSTON STOCKS.

(Paine, Webber & Co.)	Bid	Asked
Amal.	82 1/2	83 1/2
Adventure	5 1/2	5 3/4
Arcadian	4 1/2	4 3/4
Atlantic	10 1/2	11
Ariz. Con.	43 1/2	44 1/2
Boston Cor.	43 1/2	44 1/2
Boston Copper	14 1/2	15 1/2
C. & A.	98 1/2	99
C. & H.	65 1/2	66 1/2
Centennial	37 1/2	38 1/2
Coalition	56 1/2	57 1/2
Copper Range	79 1/2	80
Daily West	7 1/2	7 3/4
East Butte	40 1/2	41 1/2
Franklin	16 1/2	17 1/2
Globe	8 1/2	9
Granby	95 1/2	96 1/2
Greene Can.	30 1/2	31 1/2
Hancock	11 1/2	12 1/2
Helvetia	6 1/2	6 3/4
Isle Royale	24 1/2	25 1/2
Keweenaw	2 1/2	2 3/4
La Salle	14 1/2	15 1/2
Mass.	15 1/2	16 1/2
Miami	6 1/2	6 3/4
Michigan	5 1/2	5 3/4
Mohawk	24 1/2	25 1/2
Nev. Cons.	11 1/2	12 1/2
Nipissing	11 1/2	12 1/2
North Butte	57 1/2	58 1/2
North Lake	8 1/2	9
Ojibway	75 1/2	76 1/2
Old Dom.	50 1/2	51 1/2
Oscoda	15 1/2	16 1/2
Parrot	30 1/2	31 1/2
Quincy	8 1/2	9
Shannon	15 1/2	16 1/2
S. & B.	14 1/2	15 1/2
Sup. & Pitts.	15 1/2	16 1/2
Sup. Copper	58 1/2	59 1/2
Tamarack	65 1/2	66 1/2
Trinity	10 1/2	11 1/2
Utah Copper	47 1/2	48 1/2
U. S. M.	55 1/2	56 1/2
Utah Cons.	42 1/2	43 1/2
Victoria	3 1/2	3 3/4
Winona	6 1/2	6 3/4
Wyandot	1 1/2	1 3/4
Wolverine	149 1/2	150 1/2

NEW YORK STOCKS.

Gay & Sturgis furnish the following New York quotations:	Open	Close
Amal.	82 1/2	83 1/2
Anaconda	46 1/2	47 1/2
Locomotive	58 1/2	59 1/2
Smelters	97 1/2	98 1/2
Sugar	120 1/2	121 1/2
Atchafalca	120 1/2	121 1/2
B. & O.	116 1/2	117 1/2
B. R. T.	45 1/2	46 1/2
Colo. Fuel	22 1/2	23 1/2
Erle	69 1/2	70 1/2
Am. Car Fdry	153 1/2	154 1/2
L. & N.	47 1/2	48 1/2
M. K. & T.	68 1/2	69 1/2
Mo. Pacific	135 1/2	136 1/2
N. Y. Central	142 1/2	143 1/2
Cons. Gas	150 1/2	151 1/2
Northern Pacific	147 1/2	148 1/2
Pennsylvania	147 1/2	148 1/2
Reading	87 1/2	88 1/2
C. & O.	38 1/2	39 1/2
Rock Island	51 1/2	52 1/2
Wabash	21 1/2	22 1/2
St. Paul	129 1/2	130 1/2
Northern Pacific	131 1/2	132 1/2
Southern Railway	21 1/2	22 1/2
U. S. Steel	183 1/2	184 1/2
Canadian Pacific	127 1/2	128 1/2
Steel pfd.	127 1/2	128 1/2
Union Pacific	201 1/2	202 1/2

UNLISTED STOCKS.

J. A. Minnear and Co. say today: Activity in the copper market was confined almost entirely to the curb issues. Indiana was a feature, selling above \$7 on the announcement of favorable results in diamond drilling when a rich core was taken from a

depth of 500 feet in the No. 2 hole. The buying of this issue also caused interest to be centered in North Lake as well. Lake was a trifle easier selling down to \$25. This issue is being sold to buy Indiana. Shattuck was a good trader selling up to \$22 1/2. The report of C. & A. taking control of this property continues to be circulated and was the cause for the buying today. S. & G. was active and slightly higher on the prospects of a very favorable annual report. The balance of the curb list was unchanged. In the Boston market there were few important changes. Mass was off fractionally on a report that the mine might be closed down, pending better copper prices. The New York list opened very weak but strengthened slightly during the day. Eastern sentiment is inclined to be bearish. After the close of the market a regular dividend on Amalgamated was announced.

(J. A. Minnear & Co.)

Bid	Asked
Arizona & Michigan	70 1/2
Abmeek	200 1/2
Black Mountain	70 1/2
Butte & London	25 1/2
Bay State Gas	1 1/2
Butte Balak	9 1/2
Chemung	15 1/2
Col. Cons.	75 1/2
Cumberland Ely	13 1/2
Calumet Corbin	18 1/2
Calumet & Montana	13 1/2
Corbin Copper	5 1/2
Carmen	1 1/2
Caetius	3 1/2
Davis Daly	5 1/2
Denn Arizona	4 1/2
First National Mining	6 1/2
Goldfield Cons.	6 1/2
Gloroux	8 1/2
Globe Cons.	3 1/2
Hermine	50 1/2
Helvetia	6 1/2
Hancock	11 1/2
Isle Montana	2 1/2
Keweenaw	2 1/2
La Rose	6 1/2
Lake Copper	35 1/2
L. S. & A.	4 1/2
Live Oak	7 1/2
Miami	15 1/2
Montana Tonopah	30 1/2
National	59 1/2
Nipissing	11 1/2
North Lake	7 1/2
Ojibway	75 1/2
Ray Cons.	18 1/2
San Antonio	7 1/2
Shattuck	23 1/2
Superior & Globe	80 1/2
Superior & Boston	14 1/2
Superior & Pittsburg	15 1/2
South Columbus	10 1/2
Silver Leaf	15 1/2
Tuolumne	44 1/2
Tonopah	6 1/2
Wolverine & Arizona	50 1/2
Wolverine	90 1/2
Yukon	5 1/2
Inspiration	6 1/2
Chief	1 1/2
Yuma	1 1/2
Oneco	1 1/2
Ray Central	2 1/2
Montana Clinton	19 1/2
Indiana	7 1/2
Santa Rosa	1 1/2
Sierra	5 1/2

ASSOCIATION MEETING.

Congregational Association Will Meet at Red Jacket Church Soon.
The Lake Superior association of Congregational churches and ministers will hold its fall meeting at the Red Jacket Congregational church on Friday, October 29th. A good program has been prepared for morning, afternoon and evening sessions.

Next Sunday evening, Rev. L. K. Long, pastor of the Calumet Congregational church, will begin a series of special Sunday evening sermons on "Dramatic scenes from the Old Testament." The series consists of four discourses which are as follows:

Oct. 24—"The Chariot of Fire in Dothan."
Oct. 31—"Jehoshaphat, the Perfidious Queen."
Nov. 7—"Gideon's Gallant Band."
Nov. 14—"The Handwriting on the Wall."

NEW LAW CAUSES TROUBLE
Commissioner Flecher, Between the "Devil and the Deep Sea"

Labor Commissioner Flecher says he is between the "devil and the deep sea" in enforcing the law prohibiting the employment of women more than fifty-four hours a day in stores, factories and laundries.

Labor unions, women's clubs, the Women's Christian Temperance Union and the Young Women's Christian Association are for the enforcement of the law, while many merchants are railing at the law, declaring it is unfair and a serious blow at their business.

"One union has demanded that I be removed from office for not enforcing this law, while another institution has sent me a petition signed by 106 employees asking to be allowed to work more than ten hours," says Flecher in talking about the law. "We are after them now, however, and are notifying every one concerned that the law must be obeyed."

"It went into effect June second, but we have been slow in enforcing it because there were no copies of the law for the merchant and manufacturers to read and inform themselves regarding its provisions. I felt they should have a fair chance to get their business organized. Inspectors are out now in several cities and I presume there will be numerous arrests after next Saturday as that is the day of the week when the law is violated most."

"In Jackson, Kalamazoo and Bay City conditions are pretty good, but not everywhere. In other cities have had little effect, and now we are going after them."

"These business men who kick on the law had better tell their troubles to the legislators. They make the law. It is up to me to enforce it. I cannot discriminate in the matter."

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Important developments are likely to be announced at any time now from several of the lower priced curb issues. A number of these are selling at attractive prices now and from a speculative standpoint offer excellent opportunities for a turn in the market.

Among these issues are Superior & Globe, Arizona & Michigan, Lake Superior & Arizona, Caetius, Chief, etc. We will be pleased to keep our friends informed of these developments. Call, write or wire us for further information.

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FAMOUS ABBEY FOR SALE.

Paris, Oct. 21.—For the second time within a few months the famous abbey of Solemes was put up for sale at auction today at Le Mans. The price, originally one million francs, has been reduced to 500,000 francs, and it is believed the magnificent property will be bid in by the state to be used for a charitable institution.

COTTON GROWERS CONVENE.

Dallas, Tex., Oct. 21.—Members of the executive committee of the Texas Cotton Growers' association assembled in this city today and shortly after 2 o'clock this afternoon went into session at the Southland hotel. The meeting will formulate definite plans for completing the organization and affiliating with the Farmers' congress and will also consider the proposition of holding a mid-winter convention.

MIDSHIPMAN WILL DIE.

Annapolis, Md., Oct. 21.—Hope for the recovery of Midshipman Earl D. Wilson, the quarterback of the Navy football team, who was injured in the Villa Nova game last Saturday, was practically abandoned yesterday afternoon. It was decided that benefits from an operation are so improbable and the chances of death so great, that an operation is unjustifiable.

DORMITORIES FOR GIRLS.

Movement to Convert City Block Into Living Quarters at U. of M.
Ann Arbor, Mich., Oct. 21.—The University of Michigan regrets will be asked at their next meeting to devote part of the trust funds held by them for fellowships, or special endowments, to the building of residence halls or dormitories for girls. The main work to bring this state of things about is Mrs. Hussey, wife of the professor of astronomy in the university, but she is being strongly backed by Dean Jordan, the women's dean, and it is stated by Dean Read, of the literary department.

The plan is to build up an entire city block with girl dormitories, one on each side of the block, and eventually to place a girls' commons in the center of the block, in the back yard, as it were, of the dormitories, where all the girls could get their meals. These buildings are not to be called dormitories. That is entirely too prosaic a name for the ladies. Nothing less than "residential halls," with a big "R" and a capital "H" will do for them. The first